(19) World Intellectual Property Organization International Bureau

DMP!

- 1 0000 4 00000 10 0000 000 1000 0000 1000 1000 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 1

(43) International Publication Date 24 December 2003 (24.12.2003)

PCT

(10) International Publication Number WO 2003/106498 A3

(51) International Patent Classification⁷: G01N 33/50, A61P 37/04, 31/00, 35/00

C07K 16/28,

(21) International Application Number:

PCT/EP2003/006341

(22) International Filing Date: 13 June 2003 (13.06.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: PCT/NL02/00389

13 June 2002 (13.06.2002) NL

- (71) Applicant (for all designated States except US): CRU-CELL HOLLAND, B.V. [NL/NL]; Archimedesweg 4, NL-2333 CN Leiden (NL).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): BAKKER, ALexander, Berthold, Hendrik [NL/NL]; Burgemeester de Katlaan 6, NL-2182 GJ Hillegom (NL). MEESTER-ROOD, Pauline, Marie, Louise [NL/NL]; Westerweg 31, NL-1815 DB Alkmaar (NL). BAKKER, Adrianus, Quirinus [NL/NL]; Watermunt 6, NL-1657 KE Abbekerk (NL).
- (74) Agent: KLEIN, Bart; Archimedesweg 4, NL-2333 CN Leiden (NL).

- (81) Designated States (national): AE, AG, AL, AM, AT (utility model), AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE (utility model), EE, ES, FI (utility model), FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK (utility model), SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

(88) Date of publication of the international search report: 1 April 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: OX40 (=CD134) RECEPTOR AGONISTIC AND THERAPEUTIC USE

(57) Abstract: The present invention provides binding molecules, such as human binding molecules, that bind to and stimulate the human 0X40-receptor. The invention also provides nucleic acids encoding such binding molecules. Methods for producing such binding molecules are also provided by the present invention. Said binding molecules and nucleic acids are useful in the stimulation of human T-cells, and can be used to enhance antigen-specific immune responses.